No. 200400089

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Georgia Research Foundation, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEANUT

'Georgia-03L'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this twenty-sixth day of July, in the year two thousand and five.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions*

Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER
University of Georgia Research Foundation, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
GA 962533

3. VARIETY NAME
Georgia-03L

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
Boyd Graduate Studies Research Center
Athens, GA 30602-7411

5. TELEPHONE *(include area code)*
(706) 542-5944

6. FAX *(include area code)*
(706) 542-3837

FOR OFFICIAL USE ONLY

PVPO NUMBER
2004 00 089

FILING DATE
January 27, 2004

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
GA

9. DATE OF INCORPORATION
November 17, 1978

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*
Dr. John Ingle
University of Georgia Research Foundation, Inc.
Boyd Graduate Studies Research Center
Athens, GA 30602-7411

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 3,652.00
DATE Jan. 27, 04

CERTIFICATION FEE:
$ 432.00
DATE April 22, 05

11. TELEPHONE *(Include area code)*
(706) 542-5944

12. FAX *(Include area code)*
(706) 542-3837

13. E-MAIL

14. CROP KIND *(Common Name)*
Peanut

16. FAMILY NAME *(Botanical)*
Leguminosae (Fabaceae)

15. GENUS AND SPECIES NAME OF CROP
Arachis hypogaea L. subsp.hypogae

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☑ NO

18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (*OPTIONAL*)
☐ YES ☑ NO
IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION. _____

19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED
(Follow instructions on reverse)

a. ☑ Exhibit A. Origin and Breeding History of the Variety
b. ☑ Exhibit B. Statement of Distinctness
c. ☑ Exhibit C. Objective Description of Variety
d. ☑ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☑ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)* Mailed 12/5/03
g. ☑ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☑ YES *(If "yes", answer items 21 and 22 below)* ☐ NO *(If "no", go to item 23)*

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?
☑ YES ☐ NO
IF YES, WHICH CLASSES? X FOUNDATION X REGISTERED X CERTIFIED

22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☑ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☐ YES ☑ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☑ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
Gordhan L. Patel			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Gordhan L. Patel			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Executive Vice President	Jan. 20, 2004		

(See reverse for instructions and information collection burden statement)

ST-470 (04-03) designed by the Plant Variety Protection Office using Word 2002.

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INSTRUCTIONS

2004 00 089

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties verification that a viable *(in the sense that it will reproduce an entire plant)* tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for $3,652 ($432 filing fee and $3,220 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of $432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified

19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, *etc.*

19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

20. If "Yes" is specified *(seed of this variety be sold by variety name only, as a class of certified seed)*, the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. *(See Regulations and Rules of Practice, Section 97.103).*

23. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

24. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

22. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

23. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

24. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. *(See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)*

EXHIBIT - A

Origin and Breeding History of the Variety:

'Georgia-03L' is a new large-podded runner-type peanut (*Arachis hypogaea* L. subsp. *hypogaea* var. *hypogaea*) cultivar that was released to the University of Georgia Research Foundation by the Georgia Agricultural Experiment Stations in 2003. It was developed at the University of Georgia, Coastal Plain Experiment Station, Tifton, Georgia by Dr. William D. Branch.

Georgia-03L originated from a cross made in 1991 between Georgia Browne and VA-C 92R. The pedigree selection method was practiced within the F_2, F_3, and F_4 segregating populations, and performance testing begun in the $F_{4:6}$ generation with the advanced pure breeding line, GA 962533. For the past five years (1998-2002), field observations and data indicate that the varietal characteristics of Georgia-03L are very uniform and stable, and no off-types or variants have yet been found.

PEDIGREE SELECTION METHOD

1991	Georgia Browne X VA-C 92R
1992	F_1 Increase
1993-1995	F_2-F_4 Individual Resistant Plant Selections*
1996	F_5 Progeny Row Increase
1997-2002	F_6-F_{11} Multilocations Yield Trials
2003	F_{12} Released as 'Georgia-03L'

* Individual plant selections were based upon pod shape, seed size, testa color, growth habit, maturity, yield and grade characteristics. Because tomato spotted wilt virus (TSWV) was naturally occurring and screening in soilborne disease nurseries during these early segregation generations, individual plants were also selected for TSWV as well as soilborne disease resistance.

EXHIBIT B

Novelty Statement

Georgia-03L is most similar to Georgia Green. However, Georgia-03L differs from Georgia Green and from other runner-type peanut cultivars in having a distinctively different seed shape. This characteristic is highly heritable and very stable across years and environments.

SEED SHAPE OF GEORGIA-03L vs. GEORGIA GREEN

	Georgia-03L	Georgia Green
Seed Shape	Cylindrical-tapered ends	Spheroidal

Georgia-03L also has a significantly higher percentage of extra large kernals (ELK) and a lower percentage of medium and number 1 seed size distribution than Georgia Green. Both Georgia-03L and Georgia Green have a lower percentage of damaged kernals (DK) than NC7.

FIVE YEAR (15 TESTS) AVERAGE SHELLING OUTTURN OF GEORGIA-03L VS. NC 7 AND GEORGIA GREEN, 1998-02.

Peanut Variety	ELK (%)	Med. (%)	No. 1 (%)	SMK (%)	SS (%)	OK (%)	DK (%)	Meat (%)	Hull (%)
Georgia-03L	37 a*	25 b	3 b	65 b	7 a	2 b	1 b	75 b	25 b
Georgia Green	19 b	45 a	7 a	71 a	5 b	3 a	1 b	80 a	20 c
NC 7	38 a	16 c	3 b	57 c	7 a	2 b	6 a	72 c	28 a

*Means within the same column followed by the same letter do not differ significantly at $P \leq 0.05$.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Peanut (*Arachis hypogaea*)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Univ. of Ga. Res. Found.	GA 962533	Georgia-03L

ADDRESS *(Street and No. or RD No., City, State, Zip Code, and Country)*

Boyd Graduate Studies Research Center
Athens, GA 30602-7411

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PVPO NUMBER 200400089

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box

e.g., [0][8][9] or [0][9]) when a number is either 99 or less or 9 or less.

1. BOTANICAL TYPE:

[1] Flowering on the Main Stem: 1 = Absent 2 = Present

[1] Branching Pattern: 1 = Alternate – Pairs of vegetative and reproductive branches (Virginia)
2 = Sequential – Continuous reproductive branches (Valencia-Spanish) _____
3 = Other (Specify) _____

2. PLANT:

[1] Habit: 1 = Prostrate (Florunner) 2 = Decumbent (NC–5) 2 = Semi-Erect (Florispan) 4 = Erect (Starr)

[3] Branching: 1 = Sparse (Valencia) 2 = Moderate (Starr) 3 = Profuse (Florunner)

3. MATURITY:

[2] Region: 1 = Virginia, North Carolina 2 = Southeast United States 3 = Southwest United States 4 = Other

[1][4][0] Number of Days to Maturity Approximately in South Georgia

[0][0] Number of Days Earlier Than [2]

[0][0] Number of Days Later Than [8]

1 = Starr 2 = Florunner 3 = Florigiant
4 = Virginia 61R 5 = NC-2
6 = NC-5 7 = Southeastern Runner 56-15
8 = Other (Specify) Georgia Green

4. LEAVES:

[2] Color at 60 Days (Nickerson Color Designation _____)

[6][5] mm Leaflet Length (Basal Leaflet of the Youngest Fully Opened Leaf)

[2.4][2] Leaflet Length/Width Ratio

1=Light Green (10gy 6/9)
2= Medium Green (2.5G 5/9)
3=Dark green (5G 4/7)
4= Other (Specify)

5. POD (Average for 20 pods at maturity):

[3 1] mm Length [1 6] mm Diameter 200400089

[4 4 6 8] KG./HA. Pod Yield

[8] % More Than GA Green [8]

[4 8] % More Than NC 7 [8]

1 = Starr 2 = Florunner 3 = Florigiant
4 = Virginia 61R 5 = NC-2
6 = NC-5 7 = Southeastern Runner 56-15
8 = Other (Specify) _____

[6 9] % Fancy Size: (% riding 13.46 mm., 34/64 Inch, Spacing Set on Presizer Roller

[2] Number of Seeds per Pod: 1 = 1 2 = 2 3 =3 4 =3-4 5 = 2-3-4

[1] Constriction: 1 = Shallow or None (Virginia 56R, Argentine) 2 = Medium (Virginia 61R) 3 = Deep (Starr)

[1] Surface: 1 = Glabrous (Florunner) 2 = Pubescent (Florispan)

[1] Beak: 1 = Absent 2 = Inconspicuous 3 = Pronounced

6. SEED (Mature, cured but not aged):

[0 5] Coat Color: 1 = White (Pearl) 2 = Cream 3 = Tan (Starr) 4 = Brown 5 = Pink (Florigiant)
6 = Red 7 = Purple 8 = Dark Purple 9 = Variegated
10 = Other (Specify) _____

[1] Coat Surface: 1 = Smooth 2 = Undented [1] 1 = Uniform Color 2 = Blemished

[4] Shape: 1 = Spheriodal (Starr) 2 = Short Broad (Florunner) 3 = Elongated-Slender (Dixie Runner)
4 = Cylindrical-tapered Ends 5 = Cylindrical Blunt Ends (NC-2) 6 = Other (Specify) _____

[1 7] mm Length [1 1] mm Width [7 0] Grams per 100 Seeds (6 % Moisture)

7. DISEASE RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Resistant)

[3]	Southern Stem Rot	[0]	Rust	[3]	Early Leaf Spot	[4]	Virus X TSWV
[2]	Southern Leaf Spot	[0]	Mosaic	[0]	Pod Rot Complex	[ ]	Other (Specify) _____

8. INSECT RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Resistant)

[1]	Thrips	[0]	Burrowing Bug	[1]	Leaf Hopper	[0]	Nematode (Specify species) _____
[0]	Southern Corn Rootworm	[0]	Lesser Cornstalk Borer	[0]	Aphid	[ ]	Other (Specify) _____

9. COMPARISON OF SUBMITTED VARIETY WITH ONE OR MORE SIMILAR VARIETIES:

VARIETY	OIL* (%)	PROTIEN* (%)	OLEIC: * LINOLEIC ACID RATIO	IODINE* NUMBER	SHELLING (%)	SMK** (%)	ELK+ (%)	MAIN STEM HEIGHT (CM)
Submitted	46	27	2.3	89	75	72	37	48
Similar	48	26	2.1	85	72	64	38	43
Name of Similar Variety	NC 7	GA Green	GA Green	NC 7	NC 7	NC 7	NC 7	GA Green

* From Sound Mature Kernels ** Sound Mature Kernels + Extra Large Kernels

10. INDICATE A VARIETY WHICH MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
Pod Color	Georgia Green	Seedling Vigor	Georgia Green
Seed Dormancy	Georgia Green	Hull Thickness	NC 7
Seed Size	C-99R	Leaf Color	NC 7

11. COMMENTS: (Additional description or clarification – such as: relative disease reactions may be compared with standard varieties)

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EXHIBIT-D

Additional Description of the Variety:

Tomato spotted wilt virus (TSWV) has become a major peanut production problem in Georgia. By the end of each growing season, TSWV and other diseases have been quite severe among the more susceptible cultivars. During the past three years (2000-2002), Georgia-03L was found to have comparable TSWV and other soilborne disease resistance as the TSWV-resistant runner-type cultivar, Georgia Green.

THREE-YEAR TSWV AND TOTAL DISEASE INCIDENCE OF GEORGIA-03L VS. GEORGIA GREEN AND NC 7 OVER MULTILOCATIONS IN GEORGIA, 2000-02.

Peanut	TSWV (%)†			Total Disease (%)‡		
Variety	2000	2001	2002	2000	2001	2002
Georgia-03L	5.1 b*	5.1 a	10.3 a	18.6 b	17.6 b	25.6 a
Georgia Green	8.1 b	5.7 b	11.8 a	26.1 b	19.2 b	33.6 a
NC 7	28.9 a	16.4 a	---	61.7 a	46.1 a	---

*Means within the same column followed by the same letter do not differ significantly at $P \leq 0.05$.

† Percentage of tomato spotted wilt virus (TSWV) incidence at about mid season.

‡ Percentage of total disease incidence prior to digging, TSWV and other soilborne diseases.

The ANOVA Procedure

Dependent Variable: Response

20040089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	55009.24800	3438.07800	74.62	<.0001
Error	28	1290.04400	46.07300		
Corrected Total	44	56299.29200			

R-Square	Coeff Var	Root MSE	Response Mean
0.977086	12.72377	6.787709	53.34667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	2845.71867	203.26562	4.41	0.0004
Entry	2	52163.52933	26081.76467	566.10	<.0001

The ANOVA Procedure

20040089

Waller-Duncan K-ratio t Test for Response

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	46.073
F Value	566.10
Critical Value of t	1.82058
Minimum Significant Difference	4.5123

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	85.033	15	2 = NC 7
B	68.900	15	1 = Georgia-03L
C	6.107	15	3 = Georgia Green

02/20/2003

% Fancy Pods *
9802FP3E

	Rep	GA-03L 01	NC 7 02	GA Greens 03
1998 Test	11 — 1	63	93.6	0.6
" "	12 — 2	45.4	79.4	1.2
1999 Test	11 — 3	77.6	95.6	4
" "	12 — 4	79.8	92.7	6
2000 Test	03 — 5	84.1	88.8	11.2
" "	04 — 6	46.9	57.5	3.6
" "	11 — 7	84.2	93.7	15
" "	12 — 8	47.6	69.7	1.7
2001 Test	03 — 9	71.3	80.1	3.4
" "	04 — 10	77.3	93.4	7.1
" "	11 — 11	78.2	88.8	5.5
" "	12 — 12	72.4	89.6	6.3
2002 Test	02 — 13	72.4	88.2	9.2
" "	11 — 14	66.9	85.2	7
" "	12 — 15	66.4	79.2	9.8

* Each value represents the percent of two - 1000 g pod samples that ride a 34/64 inch spacing set on pod presizer.

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The ANOVA Procedure

20040089

Dependent Variable: Response

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	4577.217333	286.076083	11.26	<.0001
Error	28	711.130667	25.397524		
Corrected Total	44	5288.348000			

R-Square	Coeff Var	Root MSE	Response Mean
0.865529	16.24279	5.039596	31.02667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	1460.028000	104.287714	4.11	0.0007
Entry	2	3117.189333	1558.594667	61.37	<.0001

The ANOVA Procedure

Waller-Duncan K-ratio t Test for Response

2004000 c s

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	25.39752
F Value	61.37
Critical Value of t	1.83626
Minimum Significant Difference	3.3791

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	37.547	15	2 = NC 7
A			
A	36.253	15	1 = Georgia-03L
B	19.280	15	3 = Georgia Green

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03/13/2003

20040089

ELK (%) *
9802ELK

	Rep	GA-03L	NC 7	Georgia Green
		01	02	03
1998 Test	11 — 1	20.6	31.8	13.5
" "	12 — 2	30.1	38.1	14.8
1999 Test	11 — 3	36.3	49.5	17.9
" "	12 — 4	37.6	46.4	16.8
2000 Test	03 — 5	48.4	42.1	32.7
" "	04 — 6	27.5	25.9	15.2
" "	11 — 7	43.2	41.4	30.4
" "	12 — 8	24.7	23.2	15.4
2001 Test	03 — 9	41.7	38.4	16.1
" "	04 — 10	41.4	44.7	18.5
" "	11 — 11	42.3	45.4	16.8
" "	12 — 12	38.9	42.2	19.3
2002 Test	02 — 13	39.5	35.5	19.1
" "	11 — 14	37.6	33.4	21.7
" "	12 — 15	34	25.2	21

* Each value represents the mean of two - 1000 g pod samples, shelled, graded, and sized over a 21/64 x 3/4 inch slotted screen.

The ANOVA Procedure

20040089

Dependent Variable: Response

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	729394.7556	45587.1722	84.04	<.0001
Error	28	15188.3556	542.4413		
Corrected Total	44	744583.1111			

R-Square	Coeff Var	Root MSE	Response Mean
0.979602	3.569101	23.29037	652.5556

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	45763.1111	3268.7937	6.03	<.0001
Entry	2	683631.6444	341815.8222	630.14	<.0001

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The ANOVA Procedure

Waller-Duncan K-ratio t Test for Response

20040089

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	542.4413
F Value	630.14
Critical Value of t	1.82039
Minimum Significant Difference	15.481

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	805.000	15	3 = Georgia Green
B	649.533	15	1 = Georgia-03L
C	503.133	15	2 = NC 7

02/20/2003

200400089

SEED (no./lb) *
9802SD3E

Rep	GA-03L 01	NC 7 02	GA Green 03
1	696	492	862
2	658	478	834
3	628	454	794
4	611	460	733
5	623	491	755
6	713	584	834
7	626	468	745
8	698	532	886
9	663	541	782
10	637	478	800
11	623	491	801
12	620	466	796
13	655	533	810
14	642	511	806
15	650	568	837

* Each value represents the mean of two - 100 SMK samples.

The ANOVA Procedure

Dependent Variable: Response

2004 0089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	197.6795556	12.3549722	11.96	<.0001
Error	28	28.9195556	1.0328413		
Corrected Total	44	226.5991111			

R-Square	Coeff Var	Root MSE	Response Mean
0.872376	23.65906	1.016288	4.295556

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	58.0124444	4.1437460	4.01	0.0009
Entry	2	139.6671111	69.8335556	67.61	<.0001

The ANOVA Procedure

Waller-Duncan K-ratio t Test for Response

20040089

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	1.032841
F Value	67.61
Critical Value of t	1.83460
Minimum Significant Difference	0.6808

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	6.7867	15	3 = Georgia Green
B	3.0867	15	2 = NC 7
B			
B	3.0133	15	1 = Georgia-03L

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03/13/2003

No. 1 (%) *
9802NO1

Rep	GA-03L 01	NC 7 02	GA Green 03
1	3.5	1	5.9
2	2.8	1.8	5.5
3	2.4	2	5.5
4	1.3	1.9	3.3
5	2.1	2.6	4.9
6	4.5	3.7	6.9
7	2.8	3	4.5
8	4.1	2.3	7.9
9	2.3	4.3	9.5
10	2.2	3.1	6.6
11	2	2.9	8.6
12	2.7	3.7	6.6
13	4.9	5	10
14	4.2	3.6	7.8
15	3.4	5.4	8.3

* Each value represents the mean of two - 1000 g pod samples, shelled, graded, and sized between 18/64 and 16/64 x 3/4 inch slotted screen.

The ANOVA Procedure

2004000 89

Dependent Variable: Response

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	1480.402667	92.525167	9.73	<.0001
Error	28	266.177333	9.506333		
Corrected Total	44	1746.580000			

R-Square	Coeff Var	Root MSE	Response Mean
0.847601	4.369250	3.083234	70.56667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	491.3933333	35.0995238	3.69	0.0016
Entry	2	989.0093333	494.5046667	52.02	<.0001

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The ANOVA Procedure

2004 0089

Waller-Duncan K-ratio t Test for Response

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	9.506333
F Value	52.02
Critical Value of t	1.83950
Minimum Significant Difference	2.071

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	75.447	15	3 = Georgia Green
B	72.013	15	1 = Georgia-03L
C	64.240	15	2 = NC 7

02/28/2003

TSMK (%) *
9802GR3E

Rep	GA-03L 01	NC 7 02	GA Green 03
1	68.5	49.6	74.5
2	73.5	67.7	74.5
3	74.2	68.6	77.4
4	73.4	64.3	76
5	74.2	68.1	77.4
6	71.1	65.7	74.7
7	71.2	67.6	77.2
8	67	52.3	70.2
9	73.9	70.8	77.2
10	72	70	76.4
11	74.1	70.9	77.2
12	73.6	65.5	76
13	71.4	66.4	74.5
14	71.6	61.2	74.5
15	70.5	54.9	74

* Each value represents the percentage of two-1000g pod samples, shelled, graded, and sized on a 16/64 × 3/4 inch slotted screen.

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The ANOVA Procedure

Dependent Variable: Response

20040089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	6500.192889	406.262056	22.97	<.0001
Error	28	495.123556	17.682984		
Corrected Total	44	6995.316444			

R-Square	Coeff Var	Root MSE	Response Mean
0.929221	14.64743	4.205114	28.70889

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	286.169778	20.440698	1.16	0.3582
Entry	2	6214.023111	3107.011556	175.71	<.0001

The ANOVA Procedure

Waller-Duncan K-ratio t Test for Response

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	17.68298
F Value	175.71
Critical Value of t	1.82475
Minimum Significant Difference	2.8019

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	44.487	15	3 = Georgia Green
B	25.340	15	1 = Georgia-03L
C	16.300	15	2 = NC 7

03/13/2003

5-YR Average SMK Distribution
Medium (%) *
9802MED

Rep	GA-03L 01	NC 7 02	GA Green 03
1	37.4	13.1	51.1
2	26.3	9.9	47.6
3	28.1	11.5	49.1
4	29.8	11.5	51.1
5	21.6	18	37.1
6	26.5	18.6	47.7
7	21	16.5	40
8	23.1	12.3	39.5
9	24.7	20.2	48.5
10	23.3	19.5	44.9
11	24.5	20.7	48
12	24	16.5	44.1
13	24.3	20.8	42.9
14	21.5	17.2	39.4
15	24	18.2	36.3

* Each value represents the mean of two - 1000 g pod samples, shelled, graded, and sized between 21/64 and 18/64 x 3/4 inch slotted screens.

The ANOVA Procedure

Dependent Variable: Response

20040089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	2715.546222	169.721639	13.48	<.0001
Error	28	352.510222	12.589651		
Corrected Total	44	3068.056444			

R-Square	Coeff Var	Root MSE	Response Mean
0.885103	5.541353	3.548190	64.03111

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	1316.809778	94.057841	7.47	<.0001
Entry	2	1398.736444	699.368222	55.55	<.0001

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The ANOVA Procedure

20400089

Waller-Duncan K-ratio t Test for Response

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	12.58965
F Value	55.55
Critical Value of t	1.83815
Minimum Significant Difference	2.3815

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	70.553	15	3 = Georgia Green
B	64.607	15	1 = Georgia-03L
C	56.933	15	2 = NC 7

03/13/2003

SMK (%)
9802SMK *

Rep	GA-03L 01	NC 7 02	GA Gnome 03
1	61.5	45.9	70.5
2	59.2	49.8	67.9
3	66.8	63	72.5
4	68.7	59.8	71.2
5	72.1	62.7	74.7
6	58.5	48.2	69.8
7	67	60.9	74.9
8	51.9	37.8	62.8
9	68.7	62.9	74.1
10	66.9	67.3	70
11	68.8	69	73.4
12	65.6	62.4	70
13	68.7	61.3	72
14	63.3	54.2	68.9
15	61.4	48.8	65.6

* Each value represents the sum of Ehk + Med + No. 1

The ANOVA Procedure

Dependent Variable: Response

20040089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	8121000.133	507562.508	31.89	<.0001
Error	28	445697.067	15917.752		
Corrected Total	44	8566697.200			

R-Square	Coeff Var	Root MSE	Response Mean
0.947973	12.89773	126.1656	978.2000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	6312907.200	450921.943	28.33	<.0001
Entry	2	1808092.933	904046.467	56.79	<.0001

The ANOVA Procedure

Waller-Duncan K-ratio t Test for Response

2004 0089

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	15917.75
F Value	56.79
Critical Value of t	1.83771
Minimum Significant Difference	84.662

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	1130.67	15	1 = Georgia-03L
A			
A	1108.93	15	3 = Georgia Green
B	695.00	15	2 = NC 7

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02/20/2003

20040089

VALUE ($/a) *
9802DV3E

Rep	GA-03L 01	NC 7 02	GA Green 03
1	1506	729	1590
2	1194	592	1098
3	1235	1046	1271
4	1232	737	1090
5	1590	911	1555
6	862	253	977
7	1584	1043	1490
8	334	189	464
9	1720	1094	1664
10	1326	944	1372
11	1402	1270	1417
12	968	752	951
13	753	420	706
14	698	273	627
15	556	172	362

* Each value represents the mean dollar value calculated from average yield and grade data based upon USDA/FSA 1007 program loan schedules for each crop year.

The ANOVA Procedure

Dependent Variable: Response

2004 0089

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	53606603.16	3350412.70	22.91	<.0001
Error	28	4094306.49	146225.23		
Corrected Total	44	57700909.64			

R-Square	Coeff Var	Root MSE	Response Mean
0.929043	11.07968	382.3941	3451.311

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Rep	14	40081235.64	2862945.40	19.58	<.0001
Entry	2	13525367.51	6762683.76	46.25	<.0001

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The ANOVA Procedure

20040089

Waller-Duncan K-ratio t Test for Response

NOTE: This test minimizes the Bayes risk under additive loss and certain other assumptions.

Kratio	100
Error Degrees of Freedom	28
Error Mean Square	146225.2
F Value	46.25
Critical Value of t	1.84218
Minimum Significant Difference	257.22

Means with the same letter are not significantly different.

Waller Grouping	Mean	N	Entry
A	3985.6	15	1 = Georgia-03L
B	3670.7	15	3 = Georgia Green
C	2697.6	15	2 = NC 7

02/28/2003

Yield (lb/a) *
9802YD3E

Rep	GA-03L 01	NC7 02	GA Green 03
1	5500	4115	4942
2	3768	2094	3461
3	3905	3436	3834
4	3939	2962	3355
5	4992	3017	4681
6	2847	908	3070
7	5170	3442	4486
8	1364	1051	1581
9	5423	3463	5015
10	4306	3002	4206
11	4430	3992	4270
12	3063	2719	2916
13	4067	2469	3819
14	3745	2133	3420
15	3265	1661	2005

* Each value represents the mean of six 2-row plots ($20' \times 6' = 120 ft^2$) after pods were dried with forced warm air to 6% moisture and then hand-cleaned over a screen table before weighing for yield.

EXHIBIT - E

UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.
STATEMENT OF APPLICANT'S OWNERSHIP

The variety for which plant variety protection is hereby sought was developed by William D. Branch, an employee at the University of Georgia Agricultural Experiment Station. The Georgia Agricultural Experiment Station is a part of The University of Georgia. The University of Georgia is one of the universities in the University System of Georgia. The Board of Regents of the University System of Georgia ("Board of Regents") is a body that was created by the Constitution of the State of Georgia and is charged with the responsibility of operating the universities in the University System of Georgia. The University of Georgia Research Foundation, Inc. is a Georgia nonprofit corporation which was incorporated to, among other things, own and exploit intellectual property developed or created at The University of Georgia. One June 9, 1982, the Board of Regents approved a Patent Policy regarding inventions and discoveries by persons employed at the University of Georgia. As an employee at the Georgia Agricultural Experiment Station, William D. Branch is subject to said Patent Policy. Rights in novel plant varieties developed at the University of Georgia, including Georgia-03L, are covered by said Patent Policy. By agreement, the Board of Regents assigned to the University of Georgia Research Foundation, Inc. all rights in intellectual property covered by said Patent Policy. This agreement applies to then existing intellectual property and to intellectual property which was developed thereafter.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
University of Georgia Research Foundation, Inc.	GA 962533	Georgia-03L
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	**5. TELEPHONE** *(Include area code)*	**6. FAX** *(Include area code)*
Boyd Graduate Studies Research Center Athens, GA 30602-7411	(706) 542-5944	(706) 542-3837
	7. PVPO NUMBER 2004 00 089	

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** ☑ **YES** ☐ **NO**

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** ☑ **YES** ☐ **NO**

10. Is the applicant the original owner? ☐ **YES** ☑ **NO** **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☑ **YES** ☐ **NO** **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ **YES** ☐ **NO** **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

See attached Exhibit E statement.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.